

IN THE CLAIMS:

Please amend the claims in the above-identified patent application as follows wherein deleted material is marked with a ~~strike through~~ and new material is underlined to show the changes made:

1 1. **(Twice amended)** A camera subassembly, said camera subassembly
2 comprising:
3 a housing having a first opening through which light can enter into the housing,
4 and a second opposing opening;
5 a substrate, said substrate closing said second opening;
6 a window which closes the first opening, the housing and the window being
7 formed so that, when the housing is mounted to the substrate so that the
8 substrate closes the second opening, the housing, and the substrate form an
9 enclosure which is substantially sealed against ingress of contaminants;
1 0 a first lens located within the enclosure;
1 1 at least a first elongated member, ~~said first elongated member having a first end~~
1 2 coupled to said housing and a second end coupled to said first lens such which
1 3 ~~mounts the first lens to the housing~~ so that the first lens is moveable relative to
1 4 the housing backward and forward in a direction in which light passes from
1 5 the first opening through the housing to the second opening; and
1 6 an electrically controlled movement importing apparatus in said housing, said
1 7 electrically controlled movement importing apparatus at least partially secured
1 8 to the housing and at least partially secured to the lens, said electrically
1 9 controlled movement importing apparatus which, when operated at time of

2 0 camera subassembly operation, causes backward and forward movement of
2 1 the lens in the direction in which light passes through the housing.

1 2. **(Unchanged)** The camera subassembly as claimed in claim 1
2 wherein the position of the first and second openings relative to one another cannot be
3 changed.

1 3. **(Unchanged)** The camera subassembly as claimed in claim 1
2 wherein the window comprises a refractory lens.

1 4. **(Twice amended)** The camera subassembly as claimed in claim 1
2 wherein said substrate closing said second opening comprises:
3 a printed circuit substrate to which the housing is mounted so that the printed
4 circuit substrate closes the second opening such that the housing, the window
5 and the printed circuit substrate forming an enclosure which is substantially
6 sealed against the ingress of contaminants; and
7 an imager mounted within the enclosure to the printed circuit substrate in a
8 position so that light is focused on the imager after passing through the
9 window and the lens.

1 5. **(Unchanged)** The camera subassembly as claimed in claim 4
2 further comprising:
3 a connector on the printed circuit substrate at a location external to the enclosure,
4 the connector being within electrical communication with the imager. .

1 6. **(Unchanged)** The camera subassembly as claimed in claim 5
2 wherein the connector has terminals through which at least power and control signals can
3 be supplied to and image data can be communicated with the imager.

1 7. **(Unchanged)** The camera subassembly as claimed in claim 4
2 wherein the imager comprises a light detector array.

1 8. **(Cancelled)** The camera subassembly as claimed in claim 1
2 wherein the first member comprises an elongated member having a first end connected to
3 the housing and a second end connected to the lens.

1 9. **(Twice amended)** The camera subassembly as claimed in claim 1 8
2 wherein the elongated member coils around an axis which extends in the direction in
3 which light passes through the housing.

1 10. **(Unchanged)** The camera subassembly as claimed in claim 9
2 wherein the elongated member coils around an axis of revolution of the lens.

1 11. **(Twice amended)** The camera subassembly as claimed in claim
2 & 1, said camera subassembly further comprising:
3 at least a second elongated member, said second elongated member having a first
4 end connected to the housing and a second end connected to the lens.

1 12. **(Unchanged)** The camera subassembly as claimed in claim 11
2 wherein the first and second elongated members each coils around an axis which extends
3 in the direction in which light passes through the housing.

1 13. **(Unchanged)** The camera subassembly as claimed in claim 12
2 wherein the first elongated member coils in a first plane and the second elongated
3 member coils together with the first elongated member in substantially the first plane.

1 14. **(Unchanged)** The camera subassembly as claimed in claim 11
2 wherein, when viewed in the direction in which light travels through the housing, the first
3 ends of respectively the first and second elongated members are connected to the housing
4 on opposing sides of the lens.

1 15. **(Unchanged)** The camera subassembly as claimed in claim 14
2 wherein, when viewed in the direction in which light travels through the housing, the
3 second ends of respectively the first and second elongated members are connected to the
4 housing on opposing sides of the lens.

1 16. **(Twice amended)** The camera subassembly as claimed in claim
2 12, said camera subassembly further comprising:

3 a third elongated member, said third elongated member comprising

4 a first end connected to the housing and spaced from the first end of the
5 first elongated member in the direction in which light travels through
6 the housing, and

7 a second end connected to the lens and spaced from the second end of the
8 first elongated member in the direction in which light travels through
9 the housing,

1 0 wherein the third elongated member coils around an axis which extends in the direction
1 1 in which light travels through the housing.

1 17. **(Twice amended)** The camera subassembly as claimed in claim
2 16, said camera subassembly further comprising:

3 at least one stiffener element which is connected between the first elongated
4 member and the third elongated member.

1 18. **(Twice amended)** The camera subassembly as claimed in claim
2 16, said camera subassembly further comprising:
3 a fourth elongated member, said fourth elongated member comprising
4 a first end connected to the housing and spaced from the first end of the
5 second elongated member in the direction in which light travels
6 through the housing, and
7 a second end connected to the lens and spaced from the second end of the
8 second elongated member in the direction in which light travels
9 through the housing,
1 0 wherein the fourth elongated member coils around an axis which extends in the direction
1 1 in which light travels through the housing.

1 19. **(Unchanged)** The camera subassembly as claimed in claim 11
2 wherein the first end of the second elongated member is spaced from the first end of the
3 second elongated member in the direction in which light passes through the housing, and
4 the second end of the first elongated member is spaced from the second end of the second
5 elongated member in the direction in which light passes through the housing.

1 20. **(Twice amended)** The camera subassembly as claimed in claim
2 1, said camera subassembly further comprising:
3 a mounting structure within the enclosure,

4 wherein the first member is mounted to the mounting structure and the lens is mounted to
5 the mounting structure so that the lens is connected to the first member via the mounting
6 structure.

1 21. **(Twice amended)** The camera subassembly as claimed in claim
2 20, said camera subassembly further comprising:
3 at least an additional lens mounted to the mounting structure, the lenses being
4 moveable together with the mounting structure relative to the housing..

1 22. **(Unchanged)** The camera subassembly as claimed in claim 21
2 wherein all the lenses through which the light passes between the first and second
3 opening are mounted to the mounting structure.

1 23. **(Unchanged)** The camera subassembly as claimed in claim 21
2 wherein only some of the lenses through which the light passes between the first and
3 second opening are mounted to the mounting structure.

1 24. **(Unchanged)** The camera subassembly as claimed in claim 1
2 wherein the electrically controlled movement imparting apparatus comprises a first
3 electrical coil which causes movement of the lens relative to the housing when energized.

1 25. **(Unchanged)** The camera subassembly as claimed in claim 24
2 wherein the first electrical coil is located within the enclosure.

1 26. **(Unchanged)** The camera subassembly as claimed in claim 25
2 wherein the first electrical coil is connected to the lens.

1 27. **(Unchanged)** The camera subassembly as claimed in claim 25
2 wherein the first member is at least partially conductive and the first electrical coil is
3 electrically accessed through the first member.

1 28. **(Unchanged)** The camera subassembly as claimed in claim 26
2 wherein movement imparting apparatus includes a permanent magnet mounted to the
3 housing, which cooperates with the first electric coil to cause movement of the first
4 electric coil relative to the permanent magnet when the first electrical coil is energized.

1 29. **(Twice amended)** A camera subassembly, said camera subassembly
2 comprising:
3 a housing;
4 a lens located with the housing; and

5 at least a first elongated member having a first end secured to the housing and a
6 second end secured to the lens so as to mount the lens to the housing, and an
7 elongated section between the first and second ends to allow for backwards
8 and forward movement of the lens relative to the housing in a direction of an
9 axis of revolution of the lens, -
1 0 wherein the first elongated member has a thickness in a direction of the axis of
1 1 revolution, and a width in a direction transverse to the axis of revolution, the width being
1 2 more than the thickness

1 30. **(Unchanged)** The camera subassembly as claimed in claim 29
2 wherein at least the first member allows for movement of the lens in the direction of the
3 axis of revolution only.

1 31. **(Previously Cancelled)**

1 32. **(Unchanged)** The camera subassembly as claimed in claim 30
2 wherein the first elongated member coils around the axis of revolution.

1 33. **(Twice amended)** The camera subassembly as claimed in claim
2 29 ~~34~~ wherein the first elongated member coils around the axis of revolution.

1 34. **(Twice amended)** The camera subassembly as claimed in claim
2 29, said camera subassembly further comprising:
3 a second elongated member, said second elongated member comprising
4 a first end connected to the housing and
5 a second end connected to the lens,
6 wherein the first ends of the first and second elongated member are spaced from one
7 another in a direction in which the axis of revolution extends, and the second ends of the
8 first and second elongated member are spaced from one another in a direction in which
9 the axis of revolution extends.

1 35. **(Twice amended)** A method of assembling a camera
2 subassembly, said method comprising:
3 mounting a first lens within an enclosure using a flexible member which allows
4 for backwards and forward movement of the lens relative to the housing, said
5 housing having a first and a second opening, said housing having a second
6 lens fixed to said housing;
7 mounting a window to the first opening of the housing; and
8 mounting a substrate to the second opening of the housing, the substrate and a
9 window jointly define an enclosure which is substantially sealed against
1 0 ingress of contamination;
1 1 wherein movement of the first lens relative to said second lens ~~mounted within the~~
1 2 ~~enclosure~~ is controllable with an externally applied electrical signal at operation time of
1 3 said camera subassembly.

1 36. (Twice amended) A method of assembling a camera
2 subassembly, said method comprising:
3 closing an opening into a housing containing a first lens fixed to said housing with
4 a window;
5 locating a second lens within the housing; and
6 interconnecting the second lens with the housing by at least a first flexible
7 member which, due to its flexibility, allows for backward and forward
8 movement of a the second lens relative to the housing and first lens along a
9 direction in which light travels through the housing;
1 0 wherein the flexible member coils around an axis which extends in the direction in which
1 1 light passes through the housing lens.